

CLAIMS

What is claimed is:

1. An electric lamp comprising:
 - a sealed electric lamp capsule having two or more electric in-leads;
 - a support holding the lamp capsule;
 - a reflector having an interior wall defining a cavity of rotation, the reflector having a first edge defining a base opening and a second edge defining a face opening, the interior wall including one or more projections offset from the face opening and extending into the defined cavity; the reflector enclosing the lamp capsule;
 - a lens located entirely in the defined cavity, and spanning a cross section of the cavity adjacent the one or more projections and sealed along the lens to the interior surface; and
 - a threaded base providing electrical connection for the two or more electric leads and mechanical support for the support frame.
2. The electric lamp in claim 1, wherein the projection comprises a step formed on the interior wall of the reflector.
3. The electric lamp in claim 1, wherein the support includes two or more, and substantially mechanically attached to and extending from the base, having electrical connections extending through the tubes.
4. The electric lamp in claim 1, wherein the support includes two or more substantially rigid tubes mechanically attached to and extending through the reflector, having electrical connections extending through the tubes.
5. The electric lamp in claim 1, wherein the base includes a rigid non-conducting body mechanically coupled to the reflector adjacent the base opening; the non-conducting body being formed with two or more axially extending crevices enclosing to brace at least end portions of the support frame.

6. The electric lamp in claim 3, wherein the base includes a rigid non-conducting body mechanically coupled to the reflector adjacent the base opening; the non-conducting body being formed with two or more axially extending crevices enclosing to brace at least portions of the rigid tubes.
7. The electric lamp in claim 4, wherein the non-conducting body is bonded to the reflector by an intermediate material.
8. An electric lamp comprising:
 - a sealed electric lamp capsule having two or more electric in-leads;
 - a support frame holding the lamp capsule;
 - a reflector having an interior wall defining a cavity or rotation, the reflector having a first edge defining a base opening and a second edge defining a face opening, the interior wall including one or more projections offset from the face opening extending into the defined cavity; the reflector enclosing the lamp capsule;
 - a lens with an exterior most face substantially located in the defined cavity, and spanning a cross section of the cavity adjacent the one or more projections and sealed along the lens to the interior surface; the planar face located to span the face opening; and
 - a threaded base providing electrical connection for the two or more electric leads and mechanical support for the support frame; the base including a rigid non-conducting body mechanically coupled to the reflector adjacent the base opening; the non-conducting body being formed with two or more axially extending crevices enclosing to brace at least end portions of the support frame.
9. The electric lamp in claim 8, wherein the projection comprises a step formed on the interior wall of the reflector.
10. The electric lamp in claim 8, wherein the support frame includes two or more, and substantially rigid tubes mechanically attached to and extending from the base, having electrical connections extending through the tubes.

11. The electric lamp in claim 8, wherein the rigid non-conducting body is formed with two or more axially extending crevices enclosing to brace at least portions of the rigid tubes.

12. The electric lamp in claim 8, wherein the non-conducting body is bonded to the reflector by an intermediate material.

13. The electric lamp in claim 1, wherein the reflector has an end wall separating the reflector surface from the base, and the end wall is formed with two through passages supporting, and the support frame extends through the formed passages and is fixed to the reflector at each end of the formed passages.

14. The electric lamp in claim 14, wherein the support frame includes tubular elements extending through the formed passages, each tubular element being crimped on either side of end wall adjacent the end wall to lock the tubular piece to the end wall.

15. The electric lamp in claim 14, wherein a quantity of glue is positioned between the reflector and the tubular elements to glue to the tubular elements to the reflector.

16. The electric lamp in claim 14, wherein tubular elements include flared ends on one side of the end wall, and a crimp is formed on tubular element adjacent the other side of the end wall to locked the tubular element to the end wall, and lead rods are extended in the tubular elements to be braced along a length of the tubular element, and coupled to the tubular element at least one point for example by crimping the tubular element to the enclosed lead rod.